

**Montana Board of Research and Commercialization Technology
Board Meeting Teleconference
June 18, 2007**

Members John Youngberg, Chairman

Attending: Marty Connell
Jim Davison
Larry Hall
Paul Tuss

Others Dave Desch, Executive Director

Attending: Jane Todd, Administrative Specialist

I. Call to Order

Chairman Youngberg called the meeting to order at 10:05 a.m.

II. Approval of Minutes from 5/31/07 Board Meeting

Chairman Youngberg asked for discussion of the minutes of the May 31, 2007, Board meeting. There was no discussion.

Motion: Marty Connell moved to approve the minutes of the May 31, 2007, Board meeting. Jim Davison seconded the motion. All in favor, the motion carried.

III. Proposals Submitted March 1 – Discussion and Funding Decisions

Dave Desch briefly summarized the results of the presentations held in Billings on May 31, 2007. In addition, Mr. Desch informed the Board that Gloyd Simmons, Principal Investigator of Project #07-40 Heat Exchanger Fabrication Technology Development, missed the June 15th deadline set by the Board for providing evidence of matching funds with which to move forward with the project. A discussion was held regarding the results of the presentations and Project #07-40.

Action: Marty Connell moved to fund the grant applications listed below. The motion was seconded by Larry Hall, and carried unanimously. (Larry Hall was recused from voting on #08-15 Research, Development, Test and Evaluation of Adelos System and #08-52 Sonographic Analysis for Rapid Detection of Varroa Mites and Other Pathologies without Opening the Beehive.)

#08-43 Identifying Genes Conferring Enhanced Cellulosic Ethanol Production Potential for Barley Straw and Forage
--

Victoria Carollo – Montana State University – Bozeman
Year One - \$68,200

#08-06 Developing a High-Power, Fiber Coupled, Electro-Optic Amplitude Modulator
William Suckow – AdvR, Inc. – Bozeman
Year One - \$146,348

#08-66 Second Stage Field Clinical Trials & Bringing to Market of a Natural OTC (“Kre-Celazine”) to Address Chronic Inflammation
Jeff Golini – All American Pharmaceutical – Billings
Year One - \$139,763

#08-04 Enhancement of Applied Translational Research in Biomedicine
Richard Bridges – University of Montana – Missoula
Year One - \$225,000
Year Two - \$225,000

#08-20 S2 Material Based Frequency Stable Laser (S2-FSL) Technology Development for Coherent Optical Communications
Kristian Merkel – S2 Corporation – Bozeman
Year One - \$250,037

#08-59 Preclinical Development of Low Dose Methamphetamine as a Neuroprotective Agent
David Poulsen – Montana Neuroscience Institute – University of Montana – Missoula
Year One - \$141,236

#08-45 Broadband Direct Digital Conversion with Spatial Spectral Holographic Technology
W. Randall Babbitt – Montana State University – Bozeman
Year One - \$149,478

#08-44 Unmanned Aerial Vehicle Deployment of Hyperspectral Imaging Spectrometers for Noxious Weed Mapping and Carbon Sequestration Site Monitoring
Kevin Repasky – Montana State University – Bozeman
Year One - \$68,370
Year Two - \$68,520

#08-03 A Proposal to Develop a Non-Invasive Clinical Device that is Effective in Clearing Persistent Infections in Prosthetic Knee Implants
Bruce McLeod – Montana State University – Bozeman

Year One - \$74,442
Year Two - \$72,042

#08-12 Research on Native Grass Seed Morphology to Guide Development of Core Technologies of the Arbuckle Native Seedster
Lee Arbuckle – Arbuckle Ranch, Inc. – Billings
Year One - \$30,644

#08-19 Zero Voltage Switching Research
Gene Kuntz – ILX Lightwave Corporation – Bozeman
Year One - \$159,673

#08-27 Durum with Low-Cadmium Uptake for Production in Montana
Joyce Eckhoff – MSU Eastern Agricultural Research Center – Sidney/Bozeman
Year One - \$54,000

#08-58 Design of Ultra High Pressure Water Jet Cutting Pump
Richard Donovan – Montana Tech – Butte
Year One - \$198,476

#08-56 Conduct and Complete Research and Development of a Novel and Sustainable Technology for Making Cellulosic Biobutanol Advanced Biofuel from Montana Wheat Straw
Manfred Biermann – Resodyn Corporation – Butte
Year One - \$202,500
Year Two - \$202,500

#08-15 Research, Development, Test and Evaluation of Adelos System
Alex Philp – TerraEchos, Inc. – Missoula
Year One - \$200,000
Year Two - \$200,000

#08-26 Innovative Commercialization Strategies for Clean Coal and Geologic Carbon Sequestration in Montana
David Bowen – Big Sky Carbon Sequestration Partnership – Montana State University – Bozeman
Year One - \$156,753

#08-52 Sonographic Analysis for Rapid Detection of Varroa Mites and Other Pathologies without Opening the Beehive
Robert Seccomb – Bee Alert Technology, Inc. – Missoula
Year One - \$80,000

#08-17 A New Approach to Discovering Biomarkers for Health and Disease Diagnosis in the Peptidome using Zdyes

Edward Dratz – Montana State University – Bozeman

Year One - \$200,000

Year Two - \$200,000

#08-34 Image-Guided Photodynamic Therapy to Sanitize Breast Cancer Draining Lymph Nodes

Jean Starkey – Montana State University – Bozeman

Year One - \$118,500

#08-09 Precision Absorbance Colorimetric Sensor (PACS)

Jim Beck – Sunburst Sensors, LLC – Missoula

Year One - \$74,710

Year Two - \$72,600

#08-48 Collaborative Research Applications of Innovative Protein Fluorescence Lifetime Spectrometer

Gregory Gillispie – Fluorescence Innovations, Inc. – Bozeman

Year One - \$210,000

Year Two - \$165,000

#08-35 Genetically Engineered Biophotonic Nanoprobes for Two-Photon Microscopy

Mikhail Drobizhev – Montana State University – Bozeman

Year One - \$99,200

#08-49 Development of a Universal Kinase Assay for Ultra High-Throughput Screening in Drug Delivery

Kirk Hartel – Fluorescence Innovations, Inc. – Bozeman

Year One - \$105,000

IV. Other

A. The Board discussed the negative impact on grant recipients if the 2010 statutory sunset is not removed and suggested implementation of a strategy to inform grant recipients and legislators about the program.

B. The Board discussed statutory requirements regarding funding of production agriculture projects and coal and energy-related projects. Mr. Desch informed the Board that the statutory production agriculture funding requirements are being met. Mr. Desch informed the Board that the following projects appear to address the spirit of the law as far as HB 715, which goes into effect July 1, 2007, is concerned:

#08-43 Identifying Genes Conferring Enhanced Cellulosic Ethanol Production Potential for Barley Straw and Forage; #08-44 Unmanned Aerial Vehicle Deployment of

Hyperspectral Imaging Spectrometers for Noxious Weed Mapping and Carbon Sequestration Site Monitoring; #08-56 Conduct and Complete Research and Development of a Novel and Sustainable Technology for Making Cellulosic Biobutanol Advanced Biofuel from Montana Wheat Straw; #08-26 Innovative Commercialization Strategies for Clean Coal and Geologic Carbon Sequestration in Montana

Chairman Youngberg and Mr. Desch thanked Board members for their hard work and attentiveness to this funding round.

V. Public Comment

There was no public comment.

V. Adjourn

Jim Davison moved to adjourn the meeting. Larry Hall seconded the motion and all in favor, the meeting adjourned at 10:24 a.m.

Respectfully submitted,

John Youngberg, Chairman